STIC Search Report
EIC 3600

STIC Database Tracking Number: 107708

To:	From:
John Sotomayor Location: 4D39 Art Unit : 3662 Thursday, May 26, 2005 Case Serial Number: 10/680875	Etelka R. Griffin Location: EIC 3600 KNOX/4B68 Phone:571-272-4230 Etelka.griffin@uspto.gov

Search Notes

Pat#6300897

347683 (09) 6300897 October 9, 2001

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6300897

Link to Claims Section

October 9, 2001

Stabilization in a radar level gauge

APPL-NO: 347683 (09)

FILED-DATE: July 2, 1999

GRANTED-DATE: October 9, 2001

CORE TERMS: frequency, clock, gauge, radar, sample, tank, electronic, timer, measurement, controller ...

ENGLISH-ABST:

A radar gauge adapted to sense fluid level in a tank and including a radar gauge circuit in which radar transmission and level sampling are controlled by a transmit frequency and a sample frequency respectively. A first frequency separation between first and second frequencies is controlled by a control input. The first and second frequencies can be divided to generate the transmit and sample frequencies, separated by a second frequency separation. At least one frequency difference is evaluated and the evaluation used to generate the control input, stabilizing the first frequency difference, and to correct the gauge output.

Patent Cases from Federal Courts and Administrative Materials

No Documents Found!

No documents were found for your search (**6300897 or 6,300,897**). Click the "Edit Search" button below to try again. You may want to try one or more of the following:

- Check for spelling errors.
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- Use a less restrictive date range.
- Use more common search terms. "Suggested Words and Concepts" are displayed on the search form when you click on Edit Search.

Edit Search

Patent Cases from Federal Courts and Administrative Materials

No Documents Found!

No documents were found for your search: (6300897 or 6,300,897).
Click the "Edit Search" button below to try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use a less restrictive date range.
- Use more common search terms. "Suggested Words and Concepts" are displayed on the search form when you click on Edit Search.

Edit Search

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

Patent Number :
US6300897 B1 20011009 [US6300897]

Title :
(B1) Stabilization in a radar level gauge

Patent Assignee :
(B1) ROSEMOUNT INC (US)

Patent Assignee :
Rosemount Inc., Eden Prairie MN [US]

Inventor(s) :
(B1) KIELB JOHN A (US)

Application Nbr :
US34768399 19990702 [1999US-0347683]

Priority Details :
US34768399 19990702 [1999US-0347683]

Intl Patent Class :
(B1) G01S-013/08

EPO ECLA Class :
G01F-023/284

US Patent Class :
ORIGINAL (O) : 342124000; CROSS-REFERENCE (X) : 342082000 342085000

Document Type :
Corresponding document

Citations :
US4044353; US4737791; US4847623; US5563605; US5651286; US5659321; US5672975; US5701006; US5851083; US6072427; US6087978; US6107957; US6130637; US6137438; DE29815069 U; WO9814763
"Smart Transmitter Using Microwave Pulses to Measure the Level of Liquids and Solids in Process Applications," H. Lang et al., OISA, pp. 731-742 (1993).

Electronics Designer's Handbook, 2nd Edition, Giacoletto, p. 25-10 (1977).

Publication Stage :
(B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

Abstract :
A radar gauge adapted to sense fluid level in a tank and including a radar gauge circuit in which radar transmission and level sampling are controlled by a transmit frequency and a sample frequency respectively. A first frequency separation between first and second frequencies is controlled by a control input. The first and second frequencies can be divided to generate the transmit and sample frequencies, separated by a second frequency separation. At least one frequency difference is evaluated and the evaluation used to generate the control input, stabilizing the first frequency difference, and to correct the gauge output.

Update Code :
2001-42

1 / 1 LGST - ©EPO

Patent Number :
US6300897 B1 20011009 [US6300897]

Application Number :
US34768399 19990702 [1999US-0347683]

Action Taken :
20040810 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031007

Update Code :

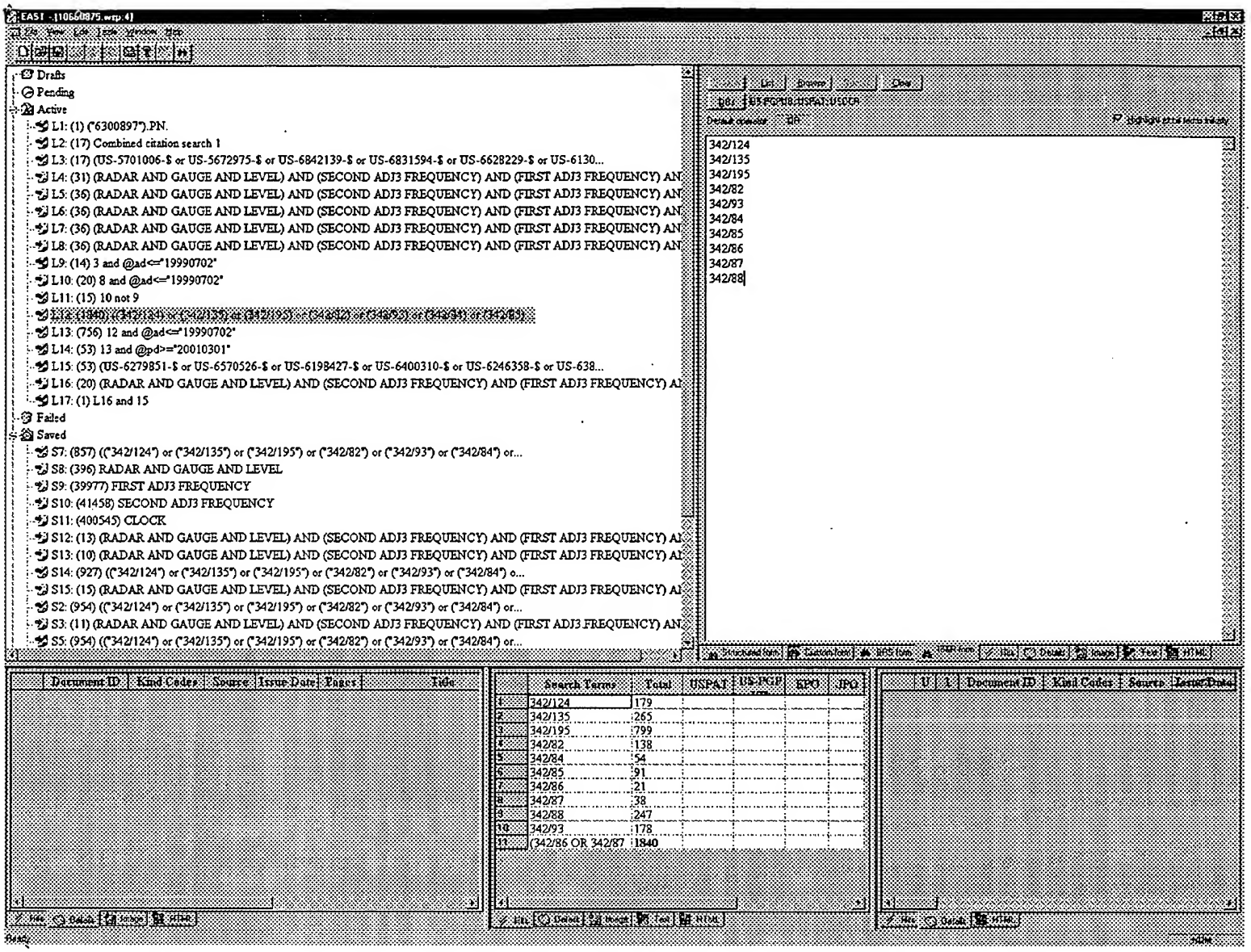
2004-34

1 / 1 CRXX - ©CLAIMS/RRX
Patent Number :
6,300,897 A 20011009 [US6300897]
Patent Assignee :
Rosemount Inc
Actions :
20031007 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20040810
REISSUE REQUEST NUMBER: 10/680875
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3662

Reissue Patent Number:

1 / 1 INPADOC - ©INPADOC
Patent Number :
US 6300897 BA 20011009 [US6300897]
Title :
STABILIZATION IN A RADAR LEVEL GAUGE
Inventor(s) :
KIELB JOHN A [US]
Patent Assignee (Words) :
ROSEMOUNT INC [US]
Application Details :
US 347683/99-A 19990702 [1999US-0347683]
Priority Details :
US 347683/99-A 19990702 [1999US-0347683]
Intl. Patent Class. :
G01S-013/08

1 / 1 LGST - ©EPO
Patent Number :
US6300897 B1 20011009 [US6300897]
Application Number :
US34768399 19990702 [1999US-0347683]
Action Taken :
20040810 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031007
Update Code :
2004-34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L2: (17) Combined citation search 1
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4 342/82 138
5 342/84 54
6 342/85 91
7 342/86 21
8 342/87 38
9 342/88 247
10 342/93 178
11 (342/86 OR 342/87 1840
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Document ID
Kind Codes
Source
Issue Date
Ready

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("6300897").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/26 11:00
L2	17	("4044353" | "4737791" | "4847623" | "5563605" | "5651286" | "5659321" | "5672975" | "5701006" | "5851083" | "6072427" | "6087978" | "6107957" | "6130637" | "6137438").PN. OR ("6300897").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/26 11:00
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L12	1840	((342/124) or (342/135) or (342/195) or (342/82) or (342/93) or (342/84) or (342/85) or (342/86) or (342/87) or (342/88)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/26 11:07
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S5	954	((342/124) or (342/135) or (342/195) or (342/82) or (342/93) or (342/84) or (342/85) or (342/86) or (342/87) or (342/88)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/26 11:07
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S8	396	RADAR AND GAUGE AND LEVEL	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2000/06/13 08:28
S9	39977	FIRST ADJ3 FREQUENCY	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2000/06/13 08:38
S10	41458	SECOND ADJ3 FREQUENCY	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2000/06/13 08:53
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SEARCH NOTES FOR EAST AND IEEE AND INSPEC AND IP.COM

SERIAL NUMBER 10680875

EAST SEARCH

EAST: search history attached

Search terms:

IEEE SEARCH

Search terms:

((radar <and> level) <and> (second <and> first <and> frequency) <and> clock <and> fluid<in>metadata)

1. **South China Sea internal tide/internal waves-impact on the temporal variability of horizontal array gain at 276 Hz**
   Orr, M.H.; Pasewark, B.H.; Wolf, S.N.; Lynch, J.F.; Schroeder, T.; Ching-Sang Chiu;
   Oceanic Engineering, IEEE Journal of
   Volume 29, Issue 4, Oct. 2004 Page(s):1292 - 1307

2. **Proceedings of the 2001 American Control Conference. (Cat. No.01CH37148)**
   American Control Conference, 2001. Proceedings of the 2001
   Volume 1, 25-27 June 2001

3. **Applications using a low-cost baseband pulsed microwave radar sensor**
   Duzdar, A.; Kompa, G.;
   Instrumentation and Measurement Technology Conference, 2001. IMTC 2001. Proceedings of the 18th IEEE
   Volume 1, 21-23 May 2001 Page(s):239 - 243 vol.1

4. **Some questions of scale in simulation, and a few answers**
   Kester, J.E.;
   Aerospace and Electronics Conference, 1992. NAECON 1992., Proceedings of the IEEE 1992 National
   18-22 May 1992 Page(s):610 - 616 vol.2

5. **Position measurements with radiosondes**
   Tug, H.;
   Oceanic Engineering, IEEE Journal of
   Volume 14, Issue 2, April 1989 Page(s):208 - 210

6. **Programming a VIPER**
   Buckley, T.F.; Jesty, P.H.;
   Computer Assurance, 1989. COMPASS '89, 'Systems Integrity, Software Safety and Process Security', Proceedings of the Fourth Annual Conference on
   19-23 June 1989 Page(s):84 - 92

INSPEC SEARCH

Search terms:

(RADAR and LEVEL) and (SECOND and FIRST and FREQUENCY) and CLOCK
(RADAR and LEVEL) and (SECOND and FIRST and FREQUENCY) and LEVEL
(RADAR and LEVEL) and (SECOND and FIRST and FREQUENCY) and FLUID

INSPEC . 1969 to date (INZZ)

Landmine detection with GPR using super resolution signal processing algorithm.

Author(s)

Shrestha.S.M; Arai.I; Tomizawa.Y; Ed. by Slob.E; Yarovoy.A; Rhebergen.J.

Source

Proceedings of the Tenth International Conference on Ground Penetrating ***Radar,*** Vol.2, Delft, Netherlands,
21.24 June 2004.
Sponsors: TNO:FEL, Geophysical Survey Syst., Inc.,.or+D ***Radar.AS,*** Allied Associates, Ingegneria dei
Sistemi.SPA, Mala Geoscience, ***Radar*** Syst. Inc., Roadscanners, Sensors & Software, T&A Survey.
In: p.705.8 Vol.2, 2004.

SMOS: analysis of perturbing effects over land surfaces.

Author(s)

Kerr.Y.H; Secherre.F; Lastenet.J; Wigneron.J.P.

Source

IGARSS 2003. 2003 IEEE International Geoscience and Remote Sensing Symposium. Proceedings, vol.2,
Toulouse, France, 21.25 July 2003.
In: p.908.10 vol.2, 2003.

Dual.antenna impulse *radar* for improved detection of buried land mines.

Author(s)

Brunzell.H; Ericsson.A.

Source

Detection and Remediation Technologies for Mines and Minelike Targets III, Orlando, FL, USA, 13.17 April
1998.
Sponsors: SPIE.
In: Proceedings.of.the.SPIE.The.International.Society.for.Optical.Engineering (USA), vol.3392, pt.1.2, p.725.34, 1998.

IP.COM SEARCH

Search terms:

(RADAR and LEVEL) and (SECOND and FIRST and FREQUENCY) and CLOCK

Result # 1 Relevance:

Anti-jamming system for tracking and surveillance radar

PREVIEW this document

12-Sep-2000 IPCOM000001028D English (United States)

A radar ECCM system for degrading the effect that a standoff noise jammer has on a radar receiving site that is tracking an incoming aerial target. The system effectively removes from the mainlobe of the beam emanating from the site the component of random noise contained in ...

Result # 2 Relevance:

Infrared coherent optical sensor

PREVIEW this document

12-Sep-2000 IPCOM000000928D English (United States)

A dual-beam amplitude-modulated laser transmitter/receiver suitable for laser-radar applications is scalable to high powers because there is no active modulator element that the laser beam passes through. The transceiver comprises a laser source with two separate independent ...

Result # 3 Relevance:

DCN local-network protocols (RFC0891)

PREVIEW this document

1983-12-01 IPCOM000003940D English (United States)

This document describes the local-net architecture and protocols of the Distributed Computer Network (DCN), a family of local nets based on Internet technology and an implementation of PDP11-based software called the Fuzzball. DCN local nets have been in operation for about ...

Result # 4 Relevance:

ECM preprocessor or tracker using multi-processor modules

PREVIEW this document

12-Sep-2000 IPCOM000000509D English (United States)

The tracking apparatus uses multi-processor modules for predicting in real time the parametric behaviour of radar signals to be jammed, as part of an electronic countermeasures system. The tracker system is partitioned into three board (module) types--(1) a subsystem request ...

Result # 5 Relevance:

CCD transversal filter using weighted input

PREVIEW this document

12-Sep-2000 IPCOM000000605D English (United States)

An analog transversal filter includes a charge transfer delay line, including a plurality of cells for storing electrical charge, and a multiphase clock to transfer electrical charge from cell to cell through the delay line. A plurality of injection electrodes are connected ...

Result # 6 Relevance:

Closed loop binary digital communication system

PREVIEW this document

12-Sep-2000 IPCOM000000062D English (United States)

A closed loop system for communication of binary data utilizes master or a sources and slave or data sink stations, each including a transmit buffer, a three-state transmitter, a receiver, a comparator, a three-state receiver, a receive buffer, a timer, a filter and a local ...

Result # 7 Relevance:

PREVIEW

ENHANCED OVERCURRENT PROTECTION SYSTEM

26-Nov-2002 IPCOM000010400D English (United States)

Existing "soft hiccup" overcurrent protection circuits do not allow a power controller to recover from an overcurrent condition (even if the overcurrent condition has been cleared), unless the system is restarted by completely discharging the soft start capacitor. As an ...

Search terms:

(RADAR and LEVEL) and (SECOND and FIRST and FREQUENCY) and FLUID

Result # 1 Relevance:

PREVIEW

Electrically small cavity antenna

12-Sep-2000 IPCOM000001211D English (United States)

A supersonic aircraft or missile broad bandwidth antenna is provided. This antenna is constructed into a cavity created in the fuselage or wing of the aircraft and covered with a radome for flush mounting. The cavity comprises side walls and a bottom constructed of ...